# BRUHAT BENGALURU MAHANAGARA PALIKE

**Name of work : Improvements and Asphalt to cross roads at Agrahara Layout instead of Kogilu layout in Ward No.05**

| Sl No | Description of work | No | Dimensions | | | Quantity | Estimate | | 20000000 |
|---|---|---|---|---|---|---|---|---|---|
| | | | L | B | D | | Rate | Unit | Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually ( other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables ) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. | | | | | | | | |
| | Basic Rate | 157.00 | | | | | | | |
| | Area Weightage 6% | 9.42 | | | | | | | |
| | **Total** | **166.42** | | | | | | | |
| | | 1 | 31.00 | 4.10 | 0.10 | 12.71 | | | |
| | | 1 | 83.00 | 4.10 | 0.10 | 34.03 | | | |
| | | 1 | 135.00 | 4.10 | 0.10 | 55.35 | | | |
| | | 1 | 206.00 | 4.10 | 0.10 | 84.46 | | | |
| | | 1 | 210.00 | 4.10 | 0.10 | 86.10 | | | |
| | | 1 | 295.00 | 4.10 | 0.10 | 120.95 | | | |
| | | 1 | 190.00 | 4.10 | 0.10 | 77.90 | | | |
| | | 1 | 401.00 | 4.10 | 0.10 | 164.41 | | | |
| | | 1 | 157.00 | 4.10 | 0.10 | 64.37 | | | |
| | | 1 | 257.00 | 4.10 | 0.10 | 105.37 | | | |
| | | 1 | 356.00 | 4.10 | 0.10 | 145.96 | | | |
| | | 1 | 356.00 | 4.10 | 0.10 | 145.96 | | | |
| | | 1 | 398.00 | 4.10 | 0.10 | 163.18 | | | |
| | | 1 | 360.00 | 4.10 | 0.20 | 295.20 | | | |
| | | 1 | 330.00 | 4.10 | 0.20 | 270.60 | | | |
| | | 1 | 293.00 | 4.10 | 0.20 | 240.26 | | | |
| | | 1 | 257.00 | 4.10 | 0.20 | 210.74 | | | |
| | | 1 | 212.00 | 4.10 | 0.20 | 173.84 | | | |
| | | 1 | 244.00 | 4.10 | 0.20 | 200.08 | | | |
| | | 1 | 140.00 | 4.10 | 0.20 | 114.80 | | | |
| | | 1 | 148.00 | 4.10 | 0.20 | 121.36 | | | |
| | | 1 | 110.00 | 4.10 | 0.20 | 90.20 | | | |
| | | 1 | 225.00 | 4.10 | 0.20 | 184.50 | | | |
| | | | | **Total** | | **3162.33** | **166.42** | **Cum** | **526275** |
| 2 | KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5. **P-** | | | | | | | | |
| | Basic Rate | 283.00 | | | | | | | |
| | Area Weightage 6% | 16.98 | | | | | | | |
| | **Total** | **299.98** | | | | | | | |

| Sl No | Description of work | No | Dimensions | | | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | L | B | D | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 2 | 206.00 | 0.75 | 0.20 | 61.80 | | | |
| | | 2 | 210.00 | 0.75 | 0.20 | 63.00 | | | |
| | | 2 | 295.00 | 0.75 | 0.20 | 88.50 | | | |
| | | 2 | 190.00 | 0.75 | 0.20 | 57.00 | | | |
| | | 2 | 401.00 | 0.75 | 0.20 | 120.30 | | | |
| | | 2 | 157.00 | 0.75 | 0.20 | 47.10 | | | |
| | | 2 | 257.00 | 0.75 | 0.20 | 77.10 | | | |
| | | 2 | 356.00 | 0.75 | 0.20 | 106.80 | | | |
| | | 2 | 356.00 | 0.75 | 0.20 | 106.80 | | | |
| | | 2 | 398.00 | 0.75 | 0.20 | 119.40 | | | |
| | | 2 | 360.00 | 0.75 | 0.20 | 108.00 | | | |
| | | 2 | 330.00 | 0.75 | 0.20 | 99.00 | | | |
| | | 2 | 293.00 | 0.75 | 0.20 | 87.90 | | | |
| | | 2 | 257.00 | 0.75 | 0.20 | 77.10 | | | |
| | | 2 | 212.00 | 0.75 | 0.20 | 63.60 | | | |
| | | 2 | 244.00 | 0.75 | 0.20 | 73.20 | | | |
| | | 2 | 140.00 | 0.75 | 0.20 | 42.00 | | | |
| | | 2 | 148.00 | 0.75 | 0.20 | 44.40 | | | |
| | | 2 | 110.00 | 0.75 | 0.20 | 33.00 | | | |
| | | 2 | 225.00 | 0.75 | 0.20 | 67.50 | | | |
| | | | | **Total** | | **1618.20** | **299.98** | **Cum** | **485428** |
| 3 | KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 **(P-130, It.No. 17.1)** | | | | | | | | |
| | Basic Rate Conveying for 10 km | 88.60 | | | | | | | |
| | Area Weightage6% | 5.32 | | | | | | | |
| | **Total** | **93.92** | | | | | | | |
| | **QtyVid ItemNo. 2** | | | | | 1618.20 | | | |
| | | | | | **Total** | **1618.20** | **93.92** | **Cum** | **151975** |
| 4 | KSRRB 300- Scarifying the surface and dressing KSRRB 300-44 Scarifying top bituminous surface or surface dressing or premix carpet including picking up scarified materials, stacking of old serviceable materials by manual means including cost of all abour charges complete as per specifications. MORTH / Chapter 3 **P-146 It,19.50** | | | | | | | | |
| | Basic Rate | 25.00 | | | | | | | |
| | Area Weightage 6 % | 1.50 | | | | | | | |
| | **Total** | **26.50** | | | | | | | |
| | | 1 | 31.00 | 2.70 | | 83.70 | | | |
| | | 1 | 83.00 | 2.70 | | 224.10 | | | |
| | | 1 | 135.00 | 2.70 | | 364.50 | | | |
| | | 1 | 206.00 | 2.70 | | 556.20 | | | |
| | | 1 | 210.00 | 2.70 | | 567.00 | | | |
| | | 1 | 295.00 | 2.70 | | 796.50 | | | |
| | | 1 | 190.00 | 2.70 | | 513.00 | | | |
| | | 1 | 401.00 | 2.70 | | 1082.70 | | | |
| | | 1 | 157.00 | 2.70 | | 423.90 | | | |
| | | 1 | 257.00 | 2.70 | | 693.90 | | | |
| | | 1 | 356.00 | 2.70 | | 961.20 | | | |

| Sl No | Description of work | No | Dimensions | | | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | L | B | D | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 1 | 356.00 | 2.70 | | 961.20 | | | |
| | | 1 | 398.00 | 2.70 | | 1074.60 | | | |
| | | 1 | 360.00 | 2.70 | | 972.00 | | | |
| | | 1 | 330.00 | 2.70 | | 891.00 | | | |
| | | 1 | 293.00 | 2.70 | | 791.10 | | | |
| | | 1 | 257.00 | 2.70 | | 693.90 | | | |
| | | 1 | 212.00 | 2.70 | | 572.40 | | | |
| | | 1 | 244.00 | 2.70 | | 658.80 | | | |
| | | 1 | 140.00 | 2.70 | | 378.00 | | | |
| | | 1 | 148.00 | 2.70 | | 399.60 | | | |
| | | 1 | 110.00 | 2.70 | | 297.00 | | | |
| | | 1 | 225.00 | 2.70 | | 607.50 | | | |
| | | | | Total | | **14563.80** | **26.50** | **Cum** | **385941** |
| 5 | *KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406* ***P-157lt,20.18*** | | | | | | | | |
| | *Basic Rate* | *1668.00* | | | | | | | |
| | *Area Weightage 6%* | *100.08* | | | | | | | |
| | ***Total*** | ***1768.08*** | | | | | | | |
| | | 2 | 31.00 | 0.75 | 0.2 | 9.30 | | | |
| | | 2 | 83.00 | 0.75 | 0.2 | 24.90 | | | |
| | | 2 | 135.00 | 0.75 | 0.2 | 40.50 | | | |
| | | 2 | 206.00 | 0.75 | 0.2 | 61.80 | | | |
| | | 2 | 210.00 | 0.75 | 0.2 | 63.00 | | | |
| | | 2 | 295.00 | 0.75 | 0.2 | 88.50 | | | |
| | | 2 | 190.00 | 0.75 | 0.2 | 57.00 | | | |
| | | 2 | 401.00 | 0.75 | 0.2 | 120.30 | | | |
| | | 2 | 157.00 | 0.75 | 0.2 | 47.10 | | | |
| | | 2 | 257.00 | 0.75 | 0.2 | 77.10 | | | |
| | | 2 | 356.00 | 0.75 | 0.2 | 106.80 | | | |
| | | 2 | 356.00 | 0.75 | 0.2 | 106.80 | | | |
| | | 2 | 398.00 | 0.75 | 0.2 | 119.40 | | | |
| | | 2 | 360.00 | 0.75 | 0.2 | 108.00 | | | |
| | | 2 | 330.00 | 0.75 | 0.2 | 99.00 | | | |
| | | 2 | 293.00 | 0.75 | 0.2 | 87.90 | | | |
| | | 2 | 257.00 | 0.75 | 0.2 | 77.10 | | | |
| | | 2 | 212.00 | 0.75 | 0.2 | 63.60 | | | |
| | | 2 | 244.00 | 0.75 | 0.2 | 73.20 | | | |
| | | 2 | 140.00 | 0.75 | 0.2 | 42.00 | | | |
| | | 2 | 148.00 | 0.75 | 0.2 | 44.40 | | | |
| | | 2 | 110.00 | 0.75 | 0.2 | 33.00 | | | |
| | | 2 | 225.00 | 0.75 | 0.2 | 67.50 | | | |
| | ***ROAD*** | | | | | | | | |
| | | 1 | 31.00 | 4.10 | 0.2 | 25.42 | | | |
| | | 1 | 83.00 | 4.10 | 0.2 | 68.06 | | | |
| | | 1 | 135.00 | 4.10 | 0.2 | 110.70 | | | |

| Sl No | Description of work | No | Dimensions | | | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | L | B | D | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 1 | 206.00 | 4.10 | 0.2 | 168.92 | | | |
| | | 1 | 210.00 | 4.10 | 0.2 | 172.20 | | | |
| | | 1 | 295.00 | 4.10 | 0.2 | 241.90 | | | |
| | | 1 | 190.00 | 4.10 | 0.2 | 155.80 | | | |
| | | 1 | 401.00 | 4.10 | 0.2 | 328.82 | | | |
| | | 1 | 157.00 | 4.10 | 0.2 | 128.74 | | | |
| | | 1 | 257.00 | 4.10 | 0.2 | 210.74 | | | |
| | | 1 | 356.00 | 4.10 | 0.2 | 291.92 | | | |
| | | 1 | 356.00 | 4.10 | 0.2 | 291.92 | | | |
| | | 1 | 398.00 | 4.10 | 0.2 | 326.36 | | | |
| | | 1 | 360.00 | 4.10 | 0.2 | 295.20 | | | |
| | | 1 | 330.00 | 4.10 | 0.2 | 270.60 | | | |
| | | 1 | 293.00 | 4.10 | 0.2 | 240.26 | | | |
| | | 1 | 257.00 | 4.10 | 0.2 | 210.74 | | | |
| | | 1 | 212.00 | 4.10 | 0.2 | 173.84 | | | |
| | | 1 | 244.00 | 4.10 | 0.2 | 200.08 | | | |
| | | 1 | 140.00 | 4.10 | 0.2 | 114.80 | | | |
| | | 1 | 148.00 | 4.10 | 0.2 | 121.36 | | | |
| | | 1 | 110.00 | 4.10 | 0.2 | 90.20 | | | |
| | | 1 | 225.00 | 4.10 | 0.2 | 184.50 | | | |
| | | | | **Total** | | **6041.28** | **1768.08** | **Cum** | **10681466** |
| 6 | *Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour, HOM of machineries complete as per specifications.. MORTH Chapter 5* ***P-159 It,21.5*** | | | | | | | | |
| | *Basic Rate* | *56.00* | | | | | | | |
| | *Area Weightage6%* | *3.36* | | | | | | | |
| | ***Total*** | ***59.36*** | | | | | | | |
| | | 1 | 31.00 | 4.10 | | 127.10 | | | |
| | | 1 | 83.00 | 4.10 | | 340.30 | | | |
| | | 1 | 135.00 | 4.10 | | 553.50 | | | |
| | | 1 | 206.00 | 4.10 | | 844.60 | | | |
| | | 1 | 210.00 | 4.10 | | 861.00 | | | |
| | | 1 | 295.00 | 4.10 | | 1209.50 | | | |
| | | 1 | 190.00 | 4.10 | | 779.00 | | | |
| | | 1 | 401.00 | 4.10 | | 1644.10 | | | |
| | | 1 | 157.00 | 4.10 | | 643.70 | | | |
| | | 1 | 257.00 | 4.10 | | 1053.70 | | | |
| | | 1 | 356.00 | 4.10 | | 1459.60 | | | |
| | | 1 | 356.00 | 4.10 | | 1459.60 | | | |
| | | 1 | 398.00 | 4.10 | | 1631.80 | | | |
| | | 1 | 360.00 | 4.10 | | 1476.00 | | | |
| | | 1 | 330.00 | 4.10 | | 1353.00 | | | |
| | | 1 | 293.00 | 4.10 | | 1201.30 | | | |
| | | 1 | 257.00 | 4.10 | | 1053.70 | | | |
| | | 1 | 212.00 | 4.10 | | 869.20 | | | |
| | | 1 | 244.00 | 4.10 | | 1000.40 | | | |
| | | 1 | 140.00 | 4.10 | | 574.00 | | | |
| | | 1 | 148.00 | 4.10 | | 606.80 | | | |

| Sl No | Description of work | No | Dimensions L | B | D | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | Total | | 20741.90 | 59.36 | Sqm | 1231239 |
| 7 | KKSRRB M500-18. Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 508 complete in all respects complete as per specifications. - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen **P-162 lt,21.20.6** | | | | | | | | | |
| | Basic Rate | 6227.00 | | | | | | | |
| | Area Weightage6% | 373.62 | | | | | | | |
| | **Total** | **6600.62** | | | | | | | |
| | | 1 | 31.00 | 4.10 | 0.03 | 3.81 | | | |
| | | 1 | 83.00 | 4.10 | 0.03 | 10.21 | | | |
| | | 1 | 135.00 | 4.10 | 0.03 | 16.61 | | | |
| | | 1 | 206.00 | 4.10 | 0.03 | 25.34 | | | |
| | | 1 | 210.00 | 4.10 | 0.03 | 25.83 | | | |
| | | 1 | 295.00 | 4.10 | 0.03 | 36.29 | | | |
| | | 1 | 190.00 | 4.10 | 0.03 | 23.37 | | | |
| | | 1 | 401.00 | 4.10 | 0.03 | 49.32 | | | |
| | | 1 | 157.00 | 4.10 | 0.03 | 19.31 | | | |
| | | 1 | 257.00 | 4.10 | 0.03 | 31.61 | | | |
| | | 1 | 356.00 | 4.10 | 0.03 | 43.79 | | | |
| | | 1 | 356.00 | 4.10 | 0.03 | 43.79 | | | |
| | | 1 | 398.00 | 4.10 | 0.03 | 48.95 | | | |
| | | 1 | 360.00 | 4.10 | 0.03 | 44.28 | | | |
| | | 1 | 330.00 | 4.10 | 0.03 | 40.59 | | | |
| | | 1 | 293.00 | 4.10 | 0.03 | 36.04 | | | |
| | | 1 | 257.00 | 4.10 | 0.03 | 31.61 | | | |
| | | 1 | 212.00 | 4.10 | 0.03 | 26.08 | | | |
| | | 1 | 244.00 | 4.10 | 0.03 | 30.01 | | | |
| | | 1 | 140.00 | 4.10 | 0.03 | 17.22 | | | |
| | | 1 | 148.00 | 4.10 | 0.03 | 18.20 | | | |
| | | 1 | 110.00 | 4.10 | 0.03 | 13.53 | | | |
| | | 1 | 225.00 | 4.10 | 0.03 | 27.68 | | | |
| | | | | Total | | 663.46 | 6600.62 | Cum | 4379261 |
| 8 | KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound2.5 mm thick including reflectorising glass beads at 250 gms per sqmarea, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.MORTH Specification No. 803 **page no185 it no 24.11** | | | | | | | | | |
| | Basic Rte | 131.00 | | | | | | | |
| | Area Weightage 6% | 7.86 | | | | | | | |
| | **Total** | **138.86** | | | | | | | |
| | | 2 | 31.00 | 0.10 | | 6.20 | | | |
| | | 2 | 83.00 | 0.10 | | 16.60 | | | |
| | | 2 | 135.00 | 0.10 | | 27.00 | | | |
| | | 2 | 206.00 | 0.10 | | 41.20 | | | |
| | | 2 | 210.00 | 0.10 | | 42.00 | | | |

| Sl No | Description of work | No | Dimensions | | | Quantity | Rate | Unit | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | L | B | D | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 2 | 295.00 | 0.10 | | 59.00 | | | |
| | | 2 | 190.00 | 0.10 | | 38.00 | | | |
| | | 2 | 401.00 | 0.10 | | 80.20 | | | |
| | | 2 | 157.00 | 0.10 | | 31.40 | | | |
| | | 2 | 257.00 | 0.10 | | 51.40 | | | |
| | | 2 | 356.00 | 0.10 | | 71.20 | | | |
| | | 2 | 356.00 | 0.10 | | 71.20 | | | |
| | | 2 | 398.00 | 0.10 | | 79.60 | | | |
| | | 2 | 360.00 | 0.10 | | 72.00 | | | |
| | | 2 | 330.00 | 0.10 | | 66.00 | | | |
| | | 2 | 293.00 | 0.10 | | 58.60 | | | |
| | | 2 | 257.00 | 0.10 | | 51.40 | | | |
| | | 2 | 212.00 | 0.10 | | 42.40 | | | |
| | | 2 | 244.00 | 0.10 | | 48.80 | | | |
| | | 2 | 140.00 | 0.10 | | 28.00 | | | |
| | | 2 | 148.00 | 0.10 | | 29.60 | | | |
| | | 2 | 110.00 | 0.10 | | 22.00 | | | |
| | | 2 | 225.00 | 0.10 | | 45.00 | | | |
| | | | | Total | | 1078.80 | 138.86 | Sqm | 149802 |
| 9 | 2% of INSCE charges and 9% **KRIDL** charges | | | | | | | | 17991386 |
| 10 | Miscellaneous & Rounding off | | | | | | | | 1979053 |
| | | | | | | | | L/S | 29561 |
| | **Total Rs:** | | | | | | | | 20000000 |

**CERTIFICATE**

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2016-2017

Assistant Engineer
Project Division

Assistant Executive Engineer
Project Division

Executive Engineer
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Technical Sanction
Accorded For 200.00 lakh Rs
Head of A/C...P3112.....
CER NO :.....173A..... Dt:..02/08/17

TA, CE (YNK)